

## CLAIMS

What is claimed is:

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1. A method for adjusting the size of an inline log for a file system, comprising:

receiving a request to adjust an inline log for a file system from a current size to a new  
size while maintaining a size of a logical volume, wherein said inline log and said file system are  
10 stored in said logical volume;

allocating storage space from within said logical volume to said inline log according to a  
storage requirement for said new size; and

15 reformatting said inline log to said allocated storage space, such that said storage space  
allocated to said inline log for a file system is adjusted while said size of said logical volume  
housing said inline log and said file system remains static.

2. The method according to claim 1 for adjusting the size of an inline log, wherein receiving  
20 a request to adjust an inline log further comprises:

receiving said request from a system administrator.

3. The method according to claim 1 for adjusting the size of an inline log, wherein receiving a request to adjust an inline log further comprises:

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receiving a first request to adjust said inline log for said file system from said current size to said new size;

10 detecting that additional storage space is not available for allocation to said logical volume; and

triggering said request to adjust said inline log for said file system from said current size to said new size while maintaining said size of said logical volume.

- 15 4. The method according to claim 1 for adjusting the size of an inline log, wherein receiving a request to adjust an inline log further comprises:

receiving a first request to adjust said file system from a current file system size to a new file system size; and

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triggering said request to adjust said inline log from said current size to said new size to

compensate for said first request to adjust said file system from said current file system size to a new file system size.

5. The method according to claim 1 for adjusting the size of an inline log, wherein  
5 allocating storage space from said logical volume to said inline log further comprises:

shrinking the total storage space allocated to said file system in said logical volume.

6. The method according to claim 1 for adjusting the size of an inline log, wherein  
10 allocating storage space from said logical volume to said inline log further comprises:

increasing the total storage space allocated to said file system in said logical volume.

7. A system for adjusting the size of an inline log for a file system without adjust a size of a  
15 logical volume storing said inline log and said file system, comprising:

means for receiving a request to adjust said inline log for said file system from a current size to a new size while maintaining a size of said logical volume;

- 20 means for allocating storage space from within said logical volume to said inline log according to a storage space requirement for said new size; and

means for reformatting said inline log to said allocated storage space.

8. The system according to claim 7 for adjusting the size of an inline log, wherein said

5 means for receiving a request to adjust an inline log further comprises:

means for receiving said request from a system administrator.

9. The system according to claim 7 for adjusting the size of an inline log, wherein said

10 means for receiving a request to adjust an inline log further comprises:

means for receiving a first request to adjust said inline log for said file system from said  
current size to said new size;

15 means for detecting that additional storage space is not available for allocation to said  
logical volume; and

means for triggering said request to adjust said inline log for said file system from said  
current size to said new size while maintaining said size of said logical volume.

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10. The system according to claim 7 for adjusting the size of an inline log, wherein said

means for receiving a request to adjust an inline log further comprises:

means for receiving a first request to adjust said file system from a current file system size to a new file system size; and

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means for triggering said request to adjust said inline log from said current size to said new size to compensate for said first request to adjust said file system from said current file system size to a new file system size.

10 11. The system according to claim 7 for adjusting the size of an inline log, wherein said means for allocating storage space from within said logical volume to said inline log further comprises:

means for shrinking the total storage space allocated to said file system within said  
15 logical volume.

12. The system according to claim 7 for adjusting the size of an inline log, wherein said means for allocating storage space from within said logical volume to said inline log further comprises:

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means for increasing the total storage space allocated to said file system within said

logical volume.

13. A computer program product, residing in a computer readable medium, for adjusting the size of an inline log for a file system within a static logical volume, comprising:

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means for receiving a request to adjust said inline log for said file system from a current size to a new size while maintaining a size of said logical volume;

means for allocating storage space from within said logical volume to said inline log  
10 according to a storage requirement for said new size; and

means for reformatting said inline log to said allocated storage space.

14. The computer program product according to claim 13 for adjusting the size of an inline  
15 log, wherein said means for receiving a request to adjust an inline log further comprises:

means for receiving said request from a system administrator.

15. The computer program product according to claim 13 for adjusting the size of an inline  
20 log, wherein said means for receiving a request to adjust an inline log further comprises:

means for receiving a first request to adjust said inline log for said file system from said current size to said new size;

means for detecting that additional storage space is not available for allocation to said  
5 logical volume; and

means for triggering said request to adjust said inline log for said file system from said current size to said new size while maintaining said size of said logical volume.

10 16. The computer program product according to claim 13 for adjusting the size of an inline log, wherein said means for receiving a request to adjust an inline log further comprises:

means for receiving a first request to adjust said file system from a current file system size to a new file system size; and

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means for triggering said request to adjust said inline log from said current size to said new size to compensate for said first request to adjust said file system from said current file system size to a new file system size.

20 17. The computer program product according to claim 13 for adjusting the size of an inline log, wherein said means for allocating storage space from within said logical volume to said

inline log further comprises:

means for shrinking the total storage space allocated to said file system in said logical volume.

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18. The computer program product according to claim 13 for adjusting the size of an inline log, wherein said means for allocating storage space from within said logical volume to said inline log further comprises:

10 means for increasing the total storage space allocated to said file system in said logical volume.